## Quiz

## DIS 203 and 210

## March 10th

1. Write down the Maclaurin series for $f(x)=\frac{1}{x^{2}-3 x+2}$. What is the radius of convergence? Hints 1
2. Integrate $\int \sqrt{1-x^{2}} d x$. Hints. ${ }^{2}$
3. Write down the Maclaurin series for

$$
\int_{0}^{x} \sqrt{1-t^{3}} d t
$$

Hints $3^{3}$
Write your name and your answers below, or on the back of this page.

[^0]
[^0]:    ${ }^{1}$ Break $f(x)$ into partial fractions. Don't figure out what $f^{(n)}(x)$ is!
    ${ }^{2}$ Use a trig substitution such as $x=\sin \theta$.
    ${ }^{3}$ Use the Maclaurin series for $\sqrt{1-x}$.

